Army Oil Analysis Program (AOAP) Restructure Plan Brief to MG(P) Christianson

17 Sep 03

Mr. Geoffrey Embrey

U.S. Army Materiel Command

ESSENTIAL IN PEACE, INDISPENSABLE IN WAR

Purpose

The purpose of this brief is to provide

the DA G4 with information on the

AOAP Restructure Plan and to obtain

approval to execute the plan on 1 Oct 03

Agenda

- Bottom Line Up Front
- Benefits of Restructure
- Background
- Why Restructure
- Restructure Plan Strategy
- Major Milestones
- Requirements
- Key Accomplishments
- Conclusion

Bottom Line Up Fro

Requirements Validated, No Centralized Funding Identified

- Restructure Plan Will Centralize Policy, Program Management, Funding, and Operational Responsibility Under a Single Program Manager in AMC ("One Belly Button to Push")
  - Three Phased Approach
    - Phase I (FY 03) - Employ Administrative Enablers
    - Phase II (FY 04) - Assume OPCON of CONUS - Based Laboratories
    - Phase III (FY 05) – Assume C2 of All Laboratories Worldwide
- ASCC/MACOM Positions:
  - FORSCOM, TRADOC, IMA, USARSO, USARPAC, ARCENT, NGB All Concur
  - USAREUR Concurs With Caveat (Want Us to Test in CONUS)

Benefits of Restructure

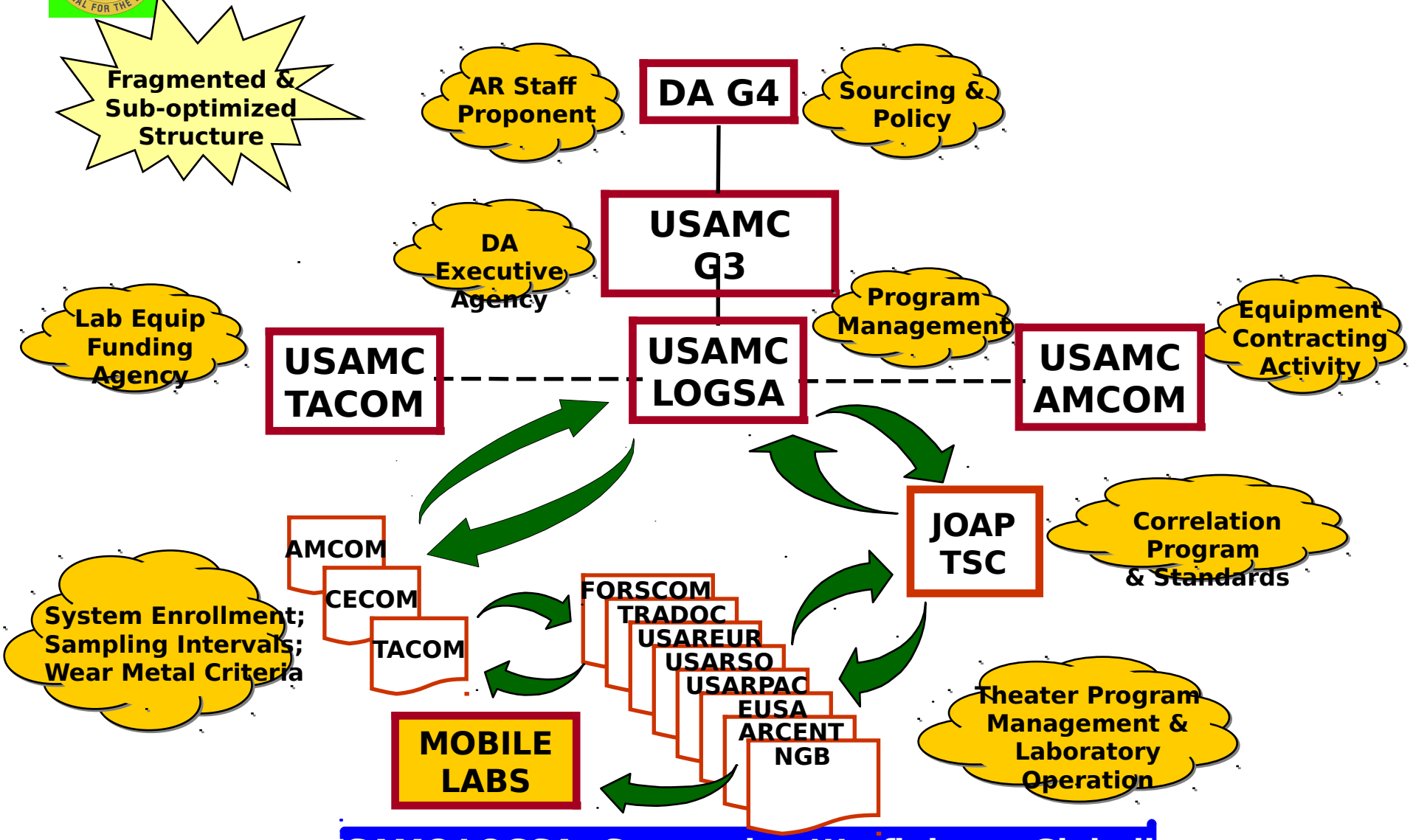
Objectives Are to Maximize Efficiency and Optimize Support, Improve Operational Readiness of Army Equipment, Increase Operational Safety, Reduce Burden on Soldiers and Conserve Resources Resulting In:

- **Enhanced strategic, operational, and tactical support by establishing one synchronized face to the warfighter**
- **Decreased requirements by streamlining services and increasing time between sampling intervals and reducing systems/components enrolled**
- **Optimized organization and structure by reducing number and size of laboratories and teaming with other services where practicable**
- **Reduced cost and future CSS footprint by vigorously exploiting and leveraging technology to embed diagnostics/prognostics sensors inline/online in both future and remaining legacy weapon systems**

Background

- Nov 97 Army Chief of Staff, General Reimer, Directed Army G-4 to Re-look AOAP and Make It More Efficient
- Nov 97– Mar 99 AOAP Program Manager Conducted Review, Assessed Alternatives, and Developed and Staffed Recommended Restructure Plan
- Apr 00 – Jun 01 Army Audit Agency (AAA) Conducted Audit of AOAP
  - Assessed Adequacy of Restructure Plan and Army Management of AOAP
- Feb 02- Army G4 Approved Restructure Plan With Implementation FY 04
  - Funding Requirements to Be in FY 04-09 POM With Implementation FY 04 (Superceded by Mar 02 Message)
- Mar 02- Army G-4 Directed Economic Analysis, Components Enrolled/sampling Interval Updates, & Regulations Update

Why Restructure?



USAMC LOGSA--Supporting Warfighters Globally

What AOAP Does For The Army

Analyze Oil To:

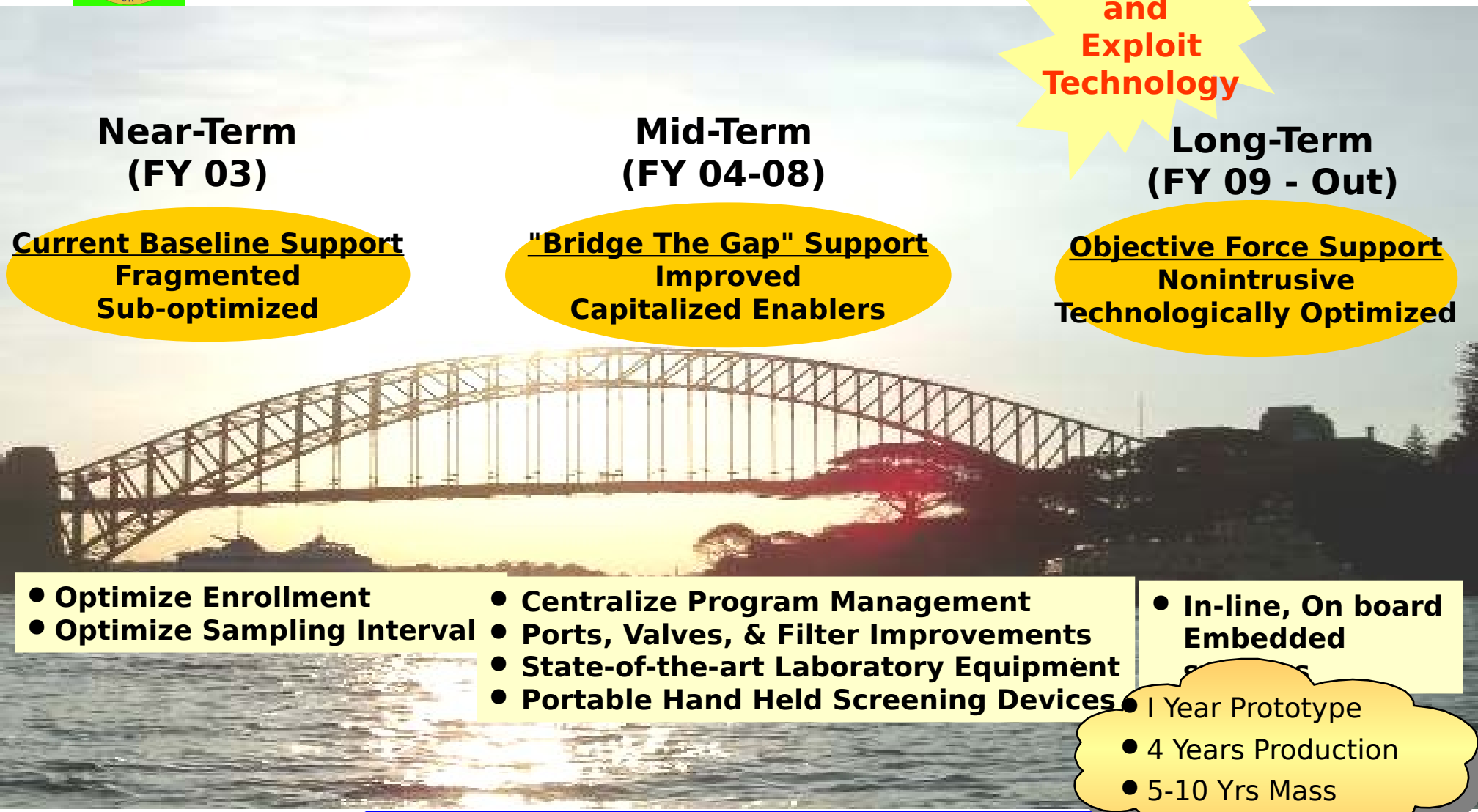
1. **Determine Presence of Contaminants and wear**
2. **Confirm Specified Physical Properties of Oil**

Through Oil Analysis:

- **Provides Commander Information on Component Condition and Oil Condition**
- **Detects Early Signs of Impending Component Failure**
  - **Reduces/Eliminates Catastrophic Failures**
  - **Reduces Maintenance and Class IX Cost**
  - **Improves Readiness and Enhances Safety**
- **Conducts On Condition Oil Changes**
  - **Avoids Labor, Pipeline, Material, and Disposal Cost**
  - **Eliminates Scheduled Oil Changes for Most High Usage Components**

AOAP Strategy

Leverage and Exploit Technology



Near-Term (FY 03)

Current Baseline Support
Fragmented
Sub-optimized

- Optimize Enrollment
- Optimize Sampling Interval

Mid-Term (FY 04-08)

"Bridge The Gap" Support
Improved
Capitalized Enablers

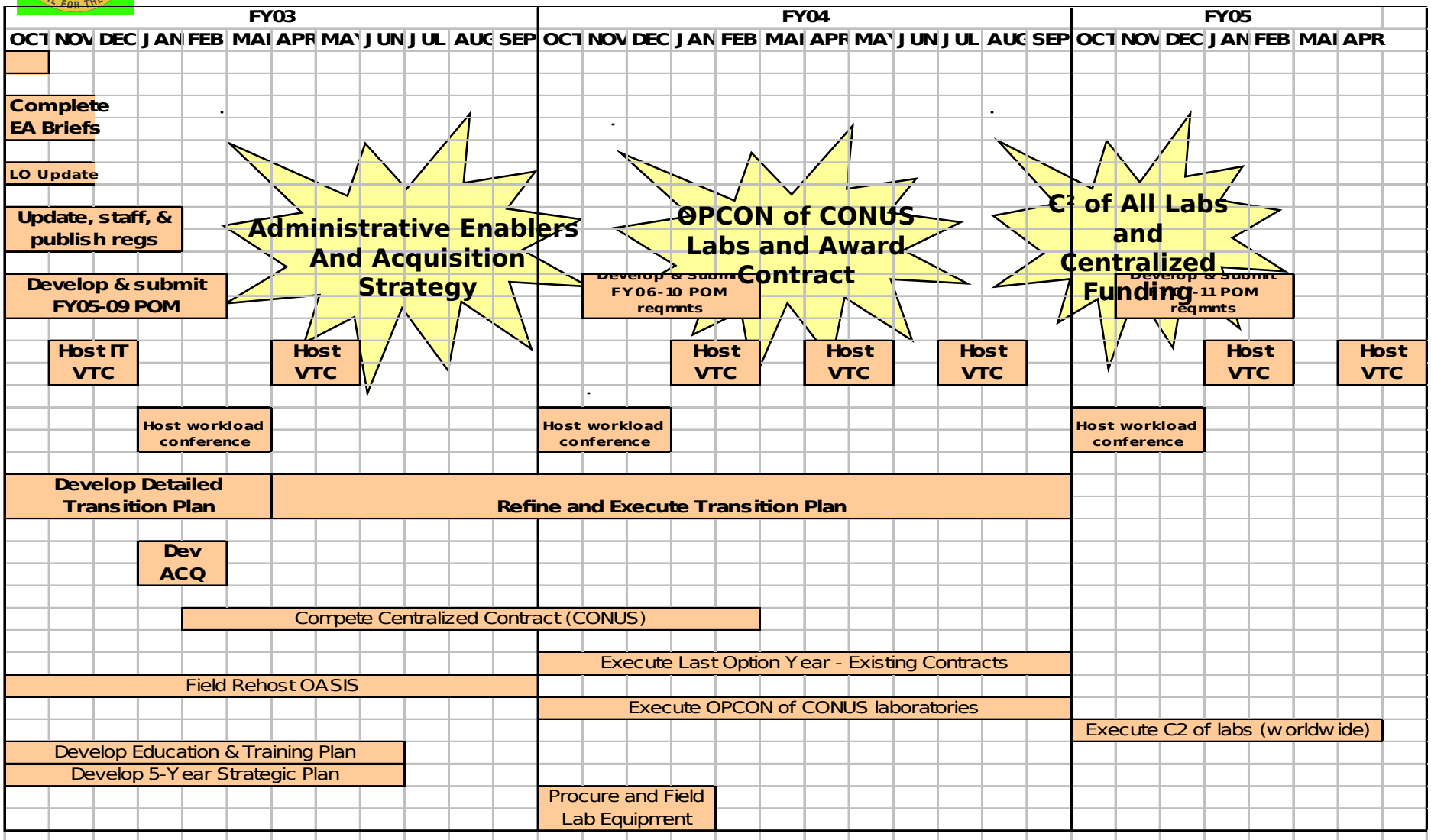
- Centralize Program Management
- Ports, Valves, & Filter Improvements
- State-of-the-art Laboratory Equipment
- Portable Hand Held Screening Devices

Long-Term (FY 09 - Out)

Objective Force Support
Nonintrusive
Technologically Optimized

- In-line, On board Embedded
- 1 Year Prototype
- 4 Years Production
- 5-10 Yrs Mass Production

Major Milestones


FY03
FY04
FY05
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP
OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP
OCT NOV DEC JAN FEB MAR APR
Complete EA Briefs
LO Update
Update, staff, & publish regs
Develop & submit FY05-09 POM
Administrative Enablers And Acquisition Strategy
OPCON of CONUS Labs and Award Contract
C² of All Labs and Centralized Funding
Develop & submit FY06-10 POM reqmnts
Develop & submit FY07-11 POM reqmnts
Host IT VTC
Host VTC
Host VTC
Host VTC
Host VTC
Host VTC
Host VTC
Host workload conference
Host workload conference
Host workload conference
Develop Detailed Transition Plan
Refine and Execute Transition Plan
Dev ACQ
Compete Centralized Contract (CONUS)
Execute Last Option Year - Existing Contracts
Field Rehost OASIS
Execute OPCON of CONUS laboratories
Execute C2 of labs (worldwide)
Develop Education & Training Plan
Develop 5-Year Strategic Plan
Procure and Field Lab Equipment

Requested POM APE/Command Requirements ($000)

APE/ APE Description: AOAP TBD Command & Cmd Code: GA9

BES/POM 04-09	PE	CMD	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY05-09	DESCRIPTION
Requested				24,598	19,608	19,557	20,470	21,428	22,431	103,494	
Validated				24,598	19,608	19,557	20,470	21,428	22,431	103,494	
Critical:				24,598	19,608	19,557	20,470	21,428	22,431	103,494	
"*DIRECT*" Manpower $				2,013	2,039	2,105	2,175	2,247	2,320	10,886	
Other Critical				10,321	2,353	2,056	2,131	2,210	2,292	11,042	
Contracts				10,992	11,107	11,436	11,773	12,119	12,479	58,914	
Funded (Current)			1,076	10,400	1,006	1,044	1,074	1,054	1,086	5,264	
MINI-POM 05-09	**PE**	**CMD**	**FY03**	**FY04**	**FY05**	**FY06**	**FY07**	**FY08**	**FY09**	**FY05-09**	**DESCRIPTION**
Requested					11,570	9,863	9,864	9,854	6,548	47,699	
Validated										-	
Critical:										-	
"*DIRECT*" Manpower $					2,094	2,128	2,199	2,138	2,227	20,387	
**Other Critical					2,417	2,049	1,914	1,914	1,307	9,601	
Contracts					7,058	5,781	5,781	5,781	3,013	27,414	
Funded (Current)										-	
DELTA	**PE**	**CMD**	**FY03**	**FY04**	**FY05**	**FY06**	**FY07**	**FY08**	**FY09**	**FY05-09**	**DESCRIPTION**
Requested										-	
Validated										-	
Critical:										-	
"*DIRECT*" Manpower $										-	
Other Critical										-	
Contracts										-	
Funded (Current)					(1,006)	(1,044)	(1,074)	(1,054)	(1,086)	(5,264)	

NOTE: FY 04 Current Funding includes 9.3M for the Purchase of Equipment; POM Requirements Validated by Sustainment PEG but Unfunded.

Key Administrative Enabler Accomplishments

- Collaborating With TARDEC & PM TMDE on New Technology
- Completed Limited Economic Analysis (UAH/AMSAA)
- Finalized Sampling Interval/enrollment Changes
- Updated Applicable Regulations, TMS, TBS AND FMS
- Hosted Worldwide Requirements Conference
- Began Fielding OASIS Rehost (Laboratory Internal Operating System) to Laboratories
- Deployed, Employed and Sustaining Strategic Mobile AOAP Laboratories
- Developed Acquisition Strategy for Centralized Worldwide Contract

Conclusion

- **AOAP Provides the Army a Valuable Service as a Maintenance Diagnostics Tool but is Currently Sub-optimized**
- **Restructure Plan Will Improve AOAP as a Maintenance Diagnostics Capability and Reduce Requirements by Continually Reviewing Items Enrolled and Sampling Intervals; Streamlining Services; and Leveraging Emerging Technology**
- **Preponderance of MACOMs and ASCCs Concur with the Restructure Plan**
- **Administrative Enablers have been Completed/are in Place to Execute**
- **Centralized Requirements Validated by DA Sustainment PEG; DA G4 Staff Working Centralized Funding**
- **Respectfully Request DA G4 Approval to Execute**